

MSFC-MNL-3427 BASELINE EFFECTIVE DATE: 09/28/2004

**George C. Marshall Space Flight Center** Marshall Space Flight Center, Alabama 35812

### **ED43**

# CONFIGURATION AND DATA MANAGEMENT GROUP

# ENGINEERING ORDER (EO) NUMBER REQUEST AND TRENDING SYSTEM USER'S MANUAL

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Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 2 of 12

### **DOCUMENT HISTORY LOG**

Status (Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		09/28/2004	Approved by ED43 Automation Board on 09/28/2004.

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 3 of 12

#### 1. SCOPE/PURPOSE

The Engineering Order (EO) Number Request and Trending System User's Manual provides instructions to system users. An EO is required to document changes to a released drawing or parts list in accordance with the MSFC-STD-555. The purpose of the EO Number Request and Trending System is to collect metrics about the reason(s) for changes to released design. The design organization's management can then utilize these metrics to report to higher management and implement corrective action for systemic problem areas. To encourage use and make the system value-added for EO initiators, the system provides the capability for EO initiators to generate an on-line EO number request and receive the assigned EO number by email. Pre-assignment of EO numbers is required by MSFC-STD-555 to ensure that the same EO number is not utilized by different initiators. Any MSFC on-site personnel with a web browser can generate an EO number request or obtain reports from the system.

#### 2. APPLICABLE DOCUMENTS

MSFC-STD-555 MSFC Engineering Document Standard

#### 3. DEFINITIONS/ACRONYMS

**CR** Change Request

**EO** Engineering Order - An EO serves as an auxiliary to a previously released drawing and provides advance notice of a design or documentation change or correction to be made to a drawing.

**ICMS** Integrated Configuration Management System

**RD** Release Desk

#### 4. PROCESS

The EO Number Request and Trending System allows any person at MSFC to generate an on-line EO number request. The request is routed to the MSFC Release Desk (RD). The MSFC Release Desk personnel reserve the EO number in the Integrated Configuration Management System (ICMS), and then enter the EO number into the EO Number Request and Trending System. The EO Number Request and

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 4 of 12

Trending System then generates an email back to the requestor with the EO number. The process flow of the MSFC Engineering Order Number Request and Trending System is shown in Figure 1. The solid lines indicate areas accessed by the users. The dashed line areas indicate the Release Desk administrative function.

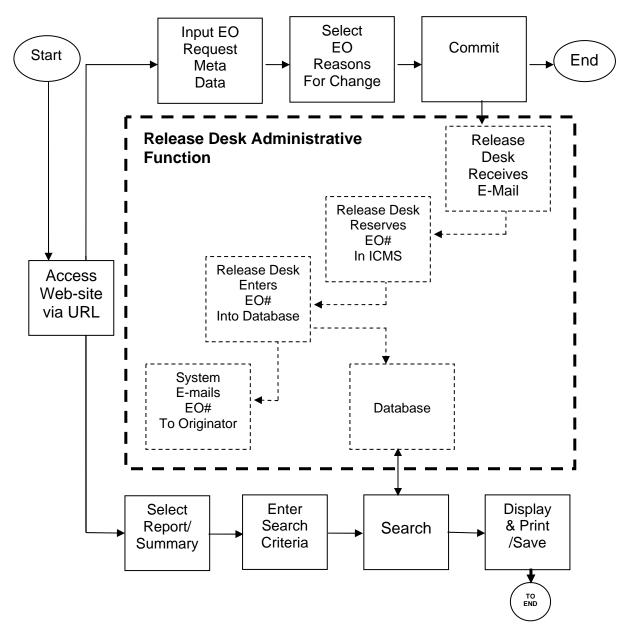


Figure 1. Process Flow of EO Number Request System

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 5 of 12

#### 5. SYSTEM USAGE

This section of the User's Guide is intended to assist users in performing system functions.

The following general user functions are described in this section:

- a. URL
- b. Main Menu
- c. User Request Input
- d. User Request Report of EO's
- e. User Request Summary of EO's
- f. Sample of the EO Report

#### 5.1 URL

The Uniform Resource Locator (URL) provides access to the EO Request and Trending System homepage.

The URL is:

https://masterlist.msfc.nasa.gov/eo/

#### **5.2 MAIN MENU**

Access to the system via this URL will display the Main Menu of the EO Number Request and Trending System as shown in Figure 2.

	Configuration and Data Management Group	
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
-	Effective Date: 09/28/2004	Page 6 of 12

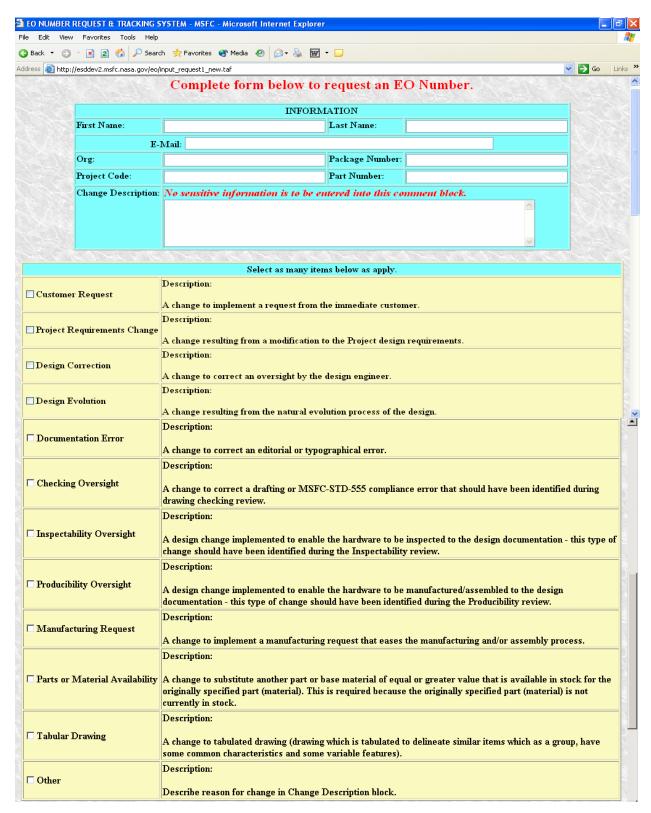


Figure 2. Main Menu of EO Number Request and Trending System

#### 5.3 USER REQUEST INPUT

Clicking on the Input link on the main menu to request an EO number will display the page shown in Figure 3 for the user to input metadata.

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
-	Effective Date: 09/28/2004	Page 7 of 12



Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 8 of 12



Figure 3. User's Metadata Request Form

Following the completion of the metadata input, the originator is requested (on the screen shown in Figure 3) to select reasons to indicate why the change is needed. Then click the submit button to commit the input to the database and request an EO number from the Release Desk. A screen will then appear confirming that the record was successfully added. The user may make another request by clicking the Submit Similar EO button to make a similar EO request from the existing record or may click the Submit New EO button to reset for a new blank request. (See figure 4.)



Figure 4. Create a similar request or a new blank request

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 9 of 12

#### 5.4 RELEASE DESK ENTRY OF THE EO NUMBER

Once the Release Desk receives the E-mail with requestor's metadata and reasons for change, the Release Desk will reserve the EO number in ICMS. As an administrative function the EO number is entered into the trending database as shown in Figure 5, then the system will e-mail the EO number to the requestor.

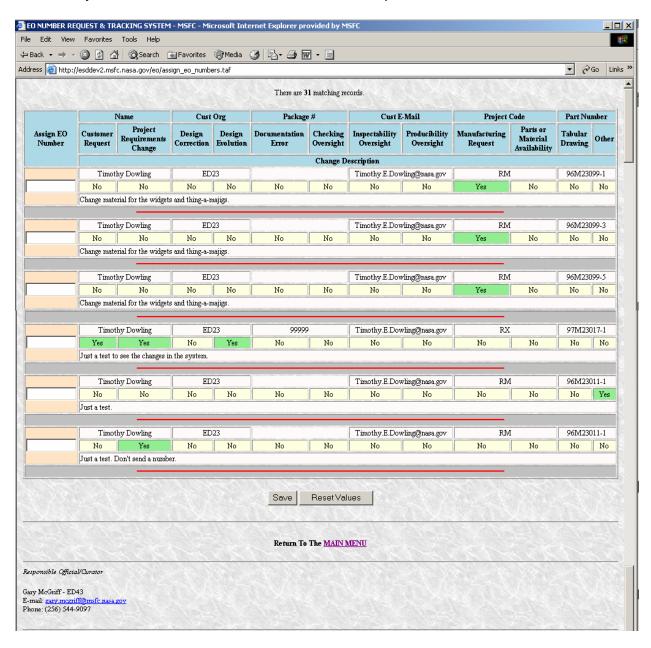


Figure 5. Release Desk's Trending Database Screen

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 10 of 12

#### 5.5 USER REQUEST REPORT OF EO's

The report capability of the EO System allows users to generate both a predefined report and a summary report. A predefined report provides basic information in fixed format. The user has restricted means for limiting the records to be included in the predefined report and for sorting the found records.

Clicking the Report of EO's link on the main menu will display the page shown in Figure 6 for the user to enter search criteria for the EO report.

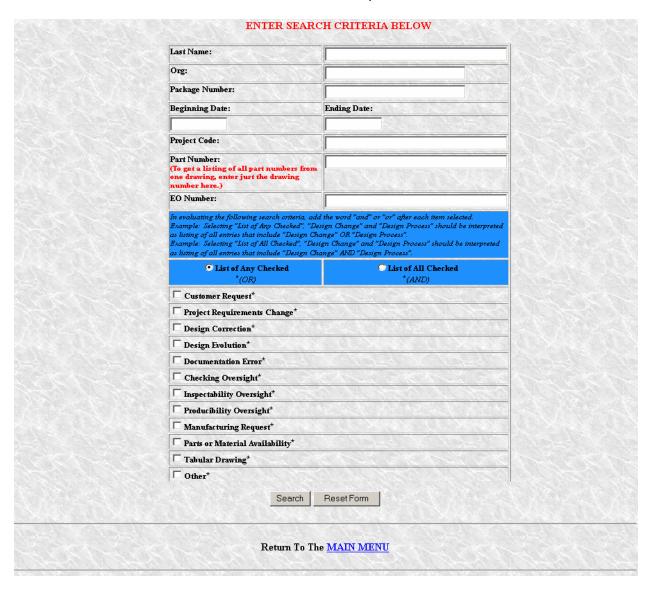


Figure 6. Menu of Search Criteria for EO Report

Configuration and Data Management Group ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 11 of 12

#### 5.6 USER REQUEST SUMMARY REPORT OF EO'S

Clicking the Summary Report of EO's link on the main menu will display the page shown in Figure 7 for users to enter search criteria. Complete only the fields which you desire to be part of the search criteria.



Figure 7. Menu of Search Criteria for EO Summary Report

#### 5.7 SAMPLE OF THE EO REPORT

A sample of the EO report is shown in Figure 8.

Configuration and Data Management Group		
ED43		
Title: Engineering Order (EO) Number Request and Trending System User's Manual	Document No.: MSFC-MNL-3427	Revision: Baseline
	Effective Date: 09/28/2004	Page 12 of 12

## EO NUMBER REPORT

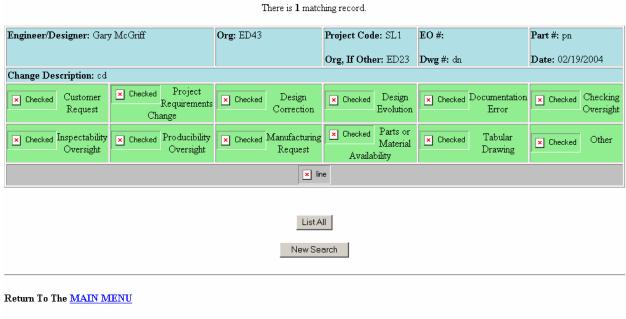


Figure 8. Sample of EO Report